1. Cube
   - Volume $a^3$
   - C.S.A $4a^2$
   - TSA $6a^2$

2. Cuboid
   - Volume lbh
   - CSA 2(l +b)h
   - TSA 2(lb +bh +hl)

3. Sphere
   - Volume $\frac{4}{3}\pi.r^3$
   - TSA $4\pi.r^2$

4. Hemi – Sphere
   - Volume $\frac{2}{3}\pi.r^3$
   - CSA $2\pi.r^2$
   - TSA $3\pi.r^2$

5. Cylinder
   - Volume $\pi.r^2h$
   - CSA $2\pi.rh$
   - TSA $2\pi.rh+2\pi.r^2$

6. Frustum

   Volume $\frac{1}{3}\pi(r_1^2+r_1r_2+r_2^2)h$

   CSA $\pi.(r_1+r_2)l$

   TSA $\pi(r_1+r_2)l+\pi.r_1^2+\pi.r_2^2$

   Whrere $l=\sqrt{(r_1-r_2)^2+h^2}$

7. Cone
   - Volume $\frac{1}{3}\pi.r^2h$
   - CSA $\pi.rl$
   - TSA $\pi.rl+\pi.r^2$

8. Statistics

   Mode = $l+\frac{f_1-f_0}{2f_1-f_0-f_2}h$

   Median = $l+\frac{\frac{n}{2}-cf_{-1}}{f}h$

   Mean = $a+h\frac{\sum fx}{\sum f}$

   3.Median = 2 Mean + Mode

9. Trigonometry
   - $\sin^2 x+\cos^2 x=1$
   - $1-\sin^2 x=\cos^2 x$
   - $1-\cos^2 x=\sin^2 x$
   - $\sec^2 x-\tan^2 x=1$
   - $1+\tan^2 x=\sec^2 x$
   - $\sec^2 x-1=\tan^2 x$
   - $\operatorname{cosec}^2 x-\cot^2 x=1$
   - $1+\cot^2 x=\operatorname{cosec}^2 x$
   - $\operatorname{cosec}^2 x-1=\cot^2 x$

   $\sin(90-A)=\cos A$

   $\sec(90-A)=\operatorname{cosec}A$

   $\tan(90-A)=\cot A$

   $\tan A=\frac{\sin A}{\cos A}$,

   $\cot A=\frac{\cos A}{\sin A}$

   $\sec A=\frac{1}{\cos A}$

   $\operatorname{cosec}A=\frac{1}{\sin A}$